

LISTING OF THE CLAIMS

1-18. (Canceled)

19. (Previously Presented) A method for treating asthma comprising:
administering to a subject an immunostimulatory oligonucleotide comprising an
immunostimulatory motif comprising a 5'-cytosine-guanine-3', wherein the immunostimulatory
oligonucleotide is administered without an allergen in an amount effective to treat asthma.

20. (Previously Presented) The method of claim 19, wherein the subject is selected from the
group consisting of human, dog, cat, horse, and cow.

21. (Previously Presented) The method of claim 19, wherein the immunostimulatory motif
comprises a CG flanked by two 5' purines and two 3' pyrimidines.

22. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif
comprises more than one CG dinucleotide.

23. (Previously Presented) The method of claim 22, wherein the immunostimulatory motif
comprises AACGCTCG.

24. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif
comprises the sequence 5'-AACGTT-3'.

25. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif
comprises a nucleotide sequence selected from the group consisting of AGCGTC, GACGTT,
GACGTC, AACGTT, and AGCGTT.

26. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif comprises a nucleotide sequence comprising:

$X_1X_2CG X_3X_4$

wherein X_1X_2 is selected from the group consisting of GpG, GpA, and ApA, and X_3X_4 is selected from the group consisting of TpT and CpT.

27. (Previously Presented) The method of claim 21, wherein the immunostimulatory motif comprises a nucleotide sequence comprising:

$X_1CG X_2$

wherein X_1 is selected from the group consisting of G and A, and X_2 is selected from the group consisting of T and C.

28. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is administered by injection.

29. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is administered to skin by transdermal route.

30. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is administered by a route that allows the oligonucleotide to be taken up by the appropriate target cells.

31. (Previously Presented) The method of claim 30, wherein the target cells are in the airway of the subject.

32. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is linked to a molecule.

33. (Previously Presented) The method of claim 32, wherein the molecule is a targeting moiety.

34. (Previously Presented) The method of claim 32, wherein the molecule interacts with a target cell surface.
35. (Previously Presented) The method of claim 19, wherein the immunostimulatory oligonucleotide is linked to a target cell specific binding agent.
36. (Previously Presented) The method of claim 19, further comprising administering an immunotherapeutic agent.
37. (Previously Presented) The method of claim 19, wherein eosinophil accumulation in lung tissue is reduced.
38. (Previously Presented) The method of claim 19, wherein inflammation is prevented.
39. (Previously Presented) The method of claim 19, wherein the subject is a human.